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=> s (micropart? or microencapsul? or microsphere# or microcapsule# or nanocapsule#
or nanopart? or nanosphere#)

L1 241971 (MICROPART? OR MICROENCAPSUL? OR MICROSPHERE# OR MICROCAPSULE#
OR NANOCAPSULE# OR NANOPART? OR NANOSPHERE#)

=> s l1 and starch

L2 25259 L1 AND STARCH

=> s l2 and (amylopectin content)

L3 22 L2 AND (AMYLOPECTIN CONTENT)

=> s l3 and (amino acid nitrogen)

2 FILES SEARCHED...

L4 11 L3 AND (AMINO ACID NITROGEN)

=> d l4 1-11 ibib abs

L4 ANSWER 1 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2004:151060 USPATFULL

TITLE: **Microparticles**

INVENTOR(S): Gustavsson, Nils Ove, Loddekopinge, SWEDEN
Jonsson, Monica, Bara, SWEDEN
Laakso, Timo, Campton, UNITED KINGDOM
Reslow, Mats, Lund, SWEDEN

	NUMBER	KIND	DATE
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PATENT INFORMATION:	US 2004115281	A1	20040617
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APPLICATION INFO.:	US 2003-705204	A1	20031110 (10)
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RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-970793, filed on 5 Oct 2001, GRANTED, Pat. No. US 6706288

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Richard H. Newman, Esq., Edwards & Angell, LLP, P.O.
Box 9169, Boston, MA, 02209

NUMBER OF CLAIMS: 46

EXEMPLARY CLAIM: 1

LINE COUNT: 1758

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for producing parenterally administrable **microparticles**, in which an at least 20% by weight aqueous solution of purified amylopectin-based **starch** of reduced molecular weight is prepared, the solution is combined with biologically active substance, an emulsion of **starch** droplets is formed in an outer phase of polymer solution, the **starch** droplets are made to gel, and the gelled **starch** particles are dried. A release-controlling shell is optionally also applied to the particles.

Microparticles which essentially consist of said

starch, have an amino acid content of less than 50 µg and have no covalent chemical cross-linking.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 2 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2004:25172 USPATFULL
TITLE: Pharmaceutically acceptable **starch**
INVENTOR(S): Gustavsson, Nils Ove, Loddekopinge, SWEDEN
Jonsson, Monica, Bara, SWEDEN
Berdén, Per, Malmö, SWEDEN
Laakso, Timo, Bedfordshire, UNITED KINGDOM
PATENT ASSIGNEE(S): JAGOTEC AG., Muttentz, SWITZERLAND (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004019014	A1	20040129
APPLICATION INFO.:	US 2003-627920	A1	20030728 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2001-970648, filed on 5 Oct 2001, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	SE 2000-3616	20001006
	US 2001-260491P	20010108 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BURNS DOANE SWECKER & MATHIS L L P, POST OFFICE BOX 1404, ALEXANDRIA, VA, 22313-1404	
NUMBER OF CLAIMS:	45	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1167	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Production of purified, parenterally administrable **starch** by washing **starch** containing more than 85% amylopectin in order to remove surface-localized proteins, lipids and endotoxins, dissolving the **starch** in aqueous medium, molecular weight reduction by shearing, and optionally removal of residual water-soluble proteins, preferably by anion exchange chromatography.

Purified **starch** and **microparticles** based on such **starch**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 3 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2003:299946 USPATFULL
TITLE: **Microparticles**
INVENTOR(S): Gustavsson, Nils Ove, Loddekopinge, SWEDEN
Jonsson, Monica, Bara, SWEDEN
Laakso, Timo, Campton, UNITED KINGDOM
Reslow, Mats, Lund, SWEDEN
PATENT ASSIGNEE(S): Jagotec AG, Muttentz, SWITZERLAND (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003211167	A1	20031113
	US 6692770	B2	20040217
APPLICATION INFO.:	US 2003-461445	A1	20030616 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2001-970793, filed on 5 Oct 2001, PENDING		

NUMBER	DATE
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PRIORITY INFORMATION: SE 2000-3615 20001006
US 2001-260455P 20010108 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Benton S. Duffett Jr., BURNS, DOANE, SWECKER & MATHIS,
L.L.P., P.O. Box 1404, Alexandria, VA, 22313-1404
NUMBER OF CLAIMS: 46
EXEMPLARY CLAIM: 1
LINE COUNT: 1756

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for producing parenterally administrable
microparticles, in which an at least 20% by weight aqueous
solution of purified amylopectin-based **starch** of reduced
molecular weight is prepared, the solution is combined with biologically
active substance, an emulsion of **starch** droplets is formed in
an outer phase of polymer solution, the **starch** droplets are
made to gel, and the gelled **starch** particles are dried. A
release-controlling shell is optionally also applied to the particles.

Microparticles which essentially consist of said
starch, have an amino acid content of less than 50 µg and
have no covalent chemical cross-linking.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2003:293948 USPATFULL
TITLE: **Starch**
INVENTOR(S): Gustavsson, Nils Ove, Loddekopinge, SWEDEN
Jonsson, Monica, Bara, SWEDEN
Berdeh, Per, Malmo, SWEDEN
Laakso, Timo, Bedfordshire, UNITED KINGDOM
Reslow, Mats, Lund, SWEDEN
PATENT ASSIGNEE(S): Jagotec AG, Muttenez, SWITZERLAND (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003206961	A1	20031106
APPLICATION INFO.:	US 2003-461393	A1	20030616 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2001-970795, filed on 5 Oct 2001, GRANTED, Pat. No. US 6616948		

	NUMBER	DATE
PRIORITY INFORMATION:	SE 2000-3616	20001006
	US 2001-260491P	20010108 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BURNS, DOANE, SWECKER & MATHIS, L.L.P., P.O. Box 1404, Alexandria, VA, 22313-1404	
NUMBER OF CLAIMS:	45	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1129	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Production of purified, parenterally administrable **starch** by
washing **starch** containing more than 85% amylopectin in order
to remove surface-localized proteins, lipids and endotoxins, subjecting
the **starch** to a molecular weight reduction by acid hydrolysis,
and optionally removing residual water-soluble proteins.

Purified **starch** and **microparticles** based on such
starch.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2003:257321 USPATFULL

TITLE: **Microparticles**

INVENTOR(S): Reslow, Mats, Lund, SWEDEN
Jonsson, Monica, Bara, SWEDEN
Larsson, Karin, Torna Hallestad, SWEDEN
Laakso, Timo, Campton, UNITED KINGDOM

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003180371	A1	20030925
APPLICATION INFO.:	US 2002-162674	A1	20020606 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	SE 2002-873	20020321
	SE 2002-1599	20020530
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Benton S. Duffett, Jr., BURNS, DOANE, SWECKER & MATHIS, L.L.P., P.O. Box 1404, Alexandria, VA, 22313-1404	
NUMBER OF CLAIMS:	78	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	1946	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for producing **microparticles**, in which an aqueous solution of purified amylopectin-based **starch** of reduced molecular weight is prepared, the solution is combined with biologically active substance, an emulsion of **starch** droplets is formed in an outer phase of polymer solution, the **starch** droplets are made to gel, the gelled **starch** particles are dried, and a release-controlling shell is optionally applied to the particles, wherein at least one buffer substance having the ability of keeping the pH of the produced **microparticles** above 3 if exposing the **microparticles** to an aqueous environment is added at any stage during the process.

Microparticles which essentially consist of said **starch**, have an amino acid content of less than 50 µg and have no covalent chemical cross-linking and which have the activity of keeping the pH above 3 if exposed to a aqueous environment,

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 6 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2002:191248 USPATFULL

TITLE: **Microparticle preparation**

INVENTOR(S): Gustavsson, Nils Ove, Loddekopinge, SWEDEN
Jonsson, Monica, Bara, SWEDEN
Laakso, Timo, Campton, UNITED KINGDOM
Reslow, Mats, Lund, SWEDEN
Bjorn, Soren, Lyngby, DENMARK
Drustup, Jorn, Farum, DENMARK

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002102311	A1	20020801
APPLICATION INFO.:	US 2002-970792	A1	20020110 (9)

NUMBER	DATE
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PRIORITY INFORMATION: SE 2000-3614 20001006
US 2001-260495P 20010108 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Benton S. Duffett, Jr., BURNS, DOANE, SWECKER & MATHIS,
L.L.P., P.O. Box 1404, Alexandria, VA, 22313-1404
NUMBER OF CLAIMS: 38
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 1903

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A parenterally administrable, biodegradable **microparticle** preparation containing a biologically active substance which, during the first 24 hours after injection, exhibits a release of the active substance that is less than 25% of the total release, determined from a concentration-time curve in the form of the ratio between the area under the curve during the said first 24 hours and the total area under the curve in question

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 7 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2002:185295 USPATFULL
TITLE: Vaccine composition
INVENTOR(S): Gustavsson, Nils Ove, Loddekopinge, SWEDEN
Jonsson, Monica, Bara, SWEDEN
Laakso, Timo, Campton, UNITED KINGDOM
Reslow, Mats, Lund, SWEDEN
Larsson, Karin, Torna Hallestad, SWEDEN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002098203	A1	20020725
APPLICATION INFO.:	US 2002-970794	A1	20020110 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	SE 2000-3615	20001006
	US 2001-260455P	20010108 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Benton S. Duffett, Jr., BURNS, DOANE, SWECKER & MATHIS, L.L.P., P.O. Box 1404, Alexandria, VA, 22313-1404	
NUMBER OF CLAIMS:	53	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	1639	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A vaccine composition which comprises an immunologically active substance embedded in **microparticles** essentially consisting of **starch** having an **amylopectin content** exceeding 85% by weight, of which at least 80% by weight has an average molecular weight within the range of 10-10000 kDa, and without any covalent chemical cross-linking between the **starch** molecules.

A process for preparing such vaccine composition.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 8 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2002:156739 USPATFULL
TITLE: Parenterally administrable **microparticles**
INVENTOR(S): Jonsson, Monica, Bara, SWEDEN
Laakso, Timo, Campton, UNITED KINGDOM

Reslow, Mats, Lund, SWEDEN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002081336	A1	20020627
APPLICATION INFO.:	US 2001-970649	A1	20011005 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	SE 2000-4218	20001116
	US 2001-260496P	20010108 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Benton S. Duffett, Jr., BURNS, DOANE, SWECKER & MATHIS, L.L.P., P.O. Box 1404, Alexandria, VA, 22313-1404	
NUMBER OF CLAIMS:	57	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1679	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for producing **microparticles** containing biologically active substance, in which process an aqueous solution of the said substance is prepared, this solution is mixed with an aqueous solution of PEG such that the substance is concentrated and/or solidified, the substance is optionally washed, the substance is mixed with an aqueous **starch** solution, the composition obtained is mixed, after the admixture of the **starch** solution, with a polymer solution, thereby forming an emulsion of **starch** droplets in the polymer solution, the **starch** droplets are solidified into **microparticles**, the **microparticles** are dried and a release-controlling shell is optionally applied to these.

Novel **microparticles** which are obtainable by means of this process.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 9 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2002:126893 USPATFULL
TITLE: **Starch**
INVENTOR(S): Gustavsson, Nils Ove, Loddekopinge, SWEDEN
Jonsson, Monica, Bara, SWEDEN
Berden, Per, Malmo, SWEDEN
Laakso, Timo, Campton, UNITED KINGDOM
Reslow, Mats, Lund, SWEDEN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002065411	A1	20020530
	US 6616948	B2	20030909
APPLICATION INFO.:	US 2001-970795	A1	20011005 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	SE 2000-3616	20001006
	US 2001-260491P	20010108 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Benton S. Duffett, Jr., BURNS, DOANE, SWECKER & MATHIS, L.L.P., P.O. Box 1404, Alexandria, VA, 22313-1404	
NUMBER OF CLAIMS:	45	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1127	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Production of purified, parenterally administrable **starch** by

washing **starch** containing more than 85% amylopectin in order to remove surface-localized proteins, lipids and endotoxins, subjecting the **starch** to a molecular weight reduction by acid hydrolysis, and optionally removing residual water-soluble proteins.

Purified **starch** and **microparticles** based on such **starch**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 10 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2002:85699 USPATFULL
TITLE: Pharmaceutically acceptable **starch**
INVENTOR(S): Gustavsson, Nils Ove, Loddekopinge, SWEDEN
Jonsson, Monica, Bara, SWEDEN
Berden, Per, Malmo, SWEDEN
Laakso, Timo, Campton, UNITED KINGDOM
Reslow, Mats, Lund, SWEDEN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002045745	A1	20020418
	US 6689389	B2	20040210
APPLICATION INFO.:	US 2001-970648	A1	20011005 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	SE 2000-3616	20001006
	US 2001-260491P	20010108 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Benton S. Duffett, Jr., BURNS, DOANE, SWECKER & MATHIS, L.L.P., P.O. Box 1404, Alexandria, VA, 22313-1404	
NUMBER OF CLAIMS:	45	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1167	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Production of purified, parenterally administrable **starch** by washing **starch** containing more than 85% amylopectin in order to remove surface-localized proteins, lipids and endotoxins, dissolving the **starch** in aqueous medium, molecular weight reduction by shearing, and optionally removal of residual water-soluble proteins, preferably by anion exchange chromatography.

Purified **starch** and **microparticles** based on such **starch**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 11 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2002:84936 USPATFULL
TITLE: **Microparticles**
INVENTOR(S): Gustavsson, Nils Ove, Loddekopinge, SWEDEN
Jonsson, Monica, Bara, SWEDEN
Laakso, Timo, Campton, UNITED KINGDOM
Reslow, Mats, Lund, SWEDEN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002044976	A1	20020418
	US 6706288	B2	20040316
APPLICATION INFO.:	US 2001-970793	A1	20011005 (9)

NUMBER	DATE
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PRIORITY INFORMATION: SE 2000-3615 20001006
US 2001-260455P 20010108 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Benton S. Duffett, Jr., BURNS, DOANE, SWECKER & MATHIS,
L.L.P., P.O. Box 1404, Alexandria, VA, 22313-1404
NUMBER OF CLAIMS: 46
EXEMPLARY CLAIM: 1
LINE COUNT: 1757

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for producing parenterally administrable
microparticles, in which an at least 20% by weight aqueous
solution of purified amylopectin-based **starch** of reduced
molecular weight is prepared, the solution is combined with biologically
active substance, an emulsion of **starch** droplets is formed in
an outer phase of polymer solution, the **starch** droplets are
made to gel, and the gelled **starch** particles are dried. A
release-controlling shell is optionally also applied to the particles.

Microparticles which essentially consist of said
starch, have an amino acid content of less than 50 µg and
have no covalent chemical cross-linking.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.